

#38

SEQUENCE LISTING

<110> Epimmune Inc.
Sette, Alessandro
Sidney, John
Southwood, Scott

<120> HLA Binding Peptides and Their Uses

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<140> US 10/030,014

<141> 2001-12-28

<150> PCT/US00/17842

<151> 2000-06-28

<150> US 60/141,422

<151> 1999-06-29

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 1 5

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 <223> HBV.env.360.V2V9

 <400> 106
 Met Val Trp Tyr Trp Gly Pro Ser Val
 1 5

 <210> 107
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 Pro Val Leu Pro Ile Phe Phe Cys Val
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Val Val Gln Ala Gly Phe Phe Leu Val
1          5

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Trp Val Leu Arg Gly Thr Ser Phe Val
1          5

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Tyr Val Asp Asp Val Val Leu Gly Val
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Tyr Val His Thr Leu Trp Lys Ala Gly Val
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Tyr Val Val Ser Phe Gly Val Trp Val

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<400> 117
Tyr Ile Val Ala Tyr Gln Ala Thr Val
1 5

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Tyr Leu Lys Ala Tyr Gln Ala Thr Val
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Tyr Leu Gln Ala Tyr Gln Ala Thr Val
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Tyr Leu Val Ala Ala Gln Ala Thr Val
1 5

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<400> 121
Tyr Leu Val Ala Lys Gln Ala Thr Val
1 5

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Tyr Leu Val Ala Tyr Ala Ala Thr Val
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Tyr Leu Val Ala Tyr Gln Ala Phe Val
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Tyr Leu Val Ala Tyr Gln Ala Lys Val
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Tyr Leu Val Ala Tyr Gln Ala Thr Phe
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Tyr Leu Val Ala Tyr Gln Ala Thr Leu
1           5

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    <400> 131
Tyr Leu Val Ala Tyr Gln Gln Thr Val

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1 5

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<210> 133
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<220>
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<400> 133
 Tyr Leu Val Gln Tyr Gln Ala Thr Val
 1 5

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<400> 136
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Ile Leu Lys Glu Pro Val Met Gly Val
1 5

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1 5

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<400> 139
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1 5

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1 5

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    <400> 142
Ile Met Tyr Glu Pro Val His Gly Val
1          5

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    <400> 143
Lys Leu Thr Pro Leu Cys Val Thr Val
1          5

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    <400> 144
Lys Met Thr Pro Leu Cys Val Thr Leu
1          5

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    <400> 145
Lys Met Thr Pro Leu Cys Val Thr Val
1          5

    <210> 146

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<211> 9
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 Met Met Lys Glu Pro Val His Gly Val
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 Trp Leu Lys Glu Pro Val His Gly Val
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 Tyr Met Lys Glu Pro Val His Gly Val
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 Leu Leu Phe Gly Tyr Pro Val Tyr Val

1 5
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 Ala Leu Gly Thr Thr Cys Tyr Ala
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 Ala Leu Pro Glu Lys Pro Ala Val
 1 5
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 Ala Leu Ser Val Gly Cys Thr Gly Ala
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<400> 155
Ala Leu Ser Val Gly Cys Thr Gly Ala Val
1 5 10

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<400> 156
Ala Val Pro Leu Ile Gln Ser Arg Ile Val
1 5 10

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<400> 157
Cys Ala Arg Ala Tyr Ser Glu Lys Val Thr
1 5 10

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<400> 158
Asp Leu Met Leu Leu Arg Leu Ser Glu Pro Val
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<400> 159
Asp Leu Val Leu Ser Ile Ala Leu Ser Val
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 Asp Val Val Lys Val Leu Gly Leu Pro Thr
 1 5 10

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 Phe Leu Arg Pro Arg Ser Leu Gln Cys Val
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 Phe Met Leu Cys Ala Gly Leu Trp Thr
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 <400> 163
 Gly Ala Val Pro Leu Ile Gln Ser Arg Ile
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 Gly Leu Pro Thr Gln Glu Pro Ala Leu Gly Thr
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 <210> 165

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    <400> 166
His Leu Leu Ser Asn Asp Met Cys Ala Arg Ala
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    <400> 167
Ile Ala Leu Ser Val Gly Cys Thr Gly Ala
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    <400> 168
Ile Ala Leu Ser Val Gly Cys Thr Gly Ala Val
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    <400> 169
Lys Ile Thr Asp Val Val Lys Val Leu

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<220>
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<220>
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<400> 171
Lys Val Thr Glu Phe Met Leu Cys Ala Gly Leu
1              5              10

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<220>
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Leu Leu Arg Leu Ser Glu Pro Ala Lys Ile
1              5              10

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<220>
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Leu Leu Ser Asn Asp Met Cys Ala Arg Ala
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1           5           10

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Leu Val Cys Asn Gly Val Leu Gln Gly Ile
1           5           10

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    <400> 176
Leu Val His Pro Gln Trp Val Leu Thr Ala Ala
1           5           10

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    <400> 177
Met Leu Leu Arg Leu Ser Glu Pro Ala
1           5           10

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    <223> HuK2.102

    <400> 178
Asn Met Ser Leu Leu Lys His Gln Ser Leu
1           5           10

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<220>
<223> HuK2.129

<400> 179
Pro Ala Lys Ile Thr Asp Val Val Lys Val
1          5          10

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<400> 180
Pro Ala Leu Gly Thr Thr Cys Tyr Ala
1          5

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<400> 181
Pro Leu Val Cys Asn Gly Val Leu Gln Gly Val
1          5          10

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<400> 182
Pro Thr Gln Glu Pro Ala Leu Gly Thr Thr
1          5          10

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<400> 183
Pro Val Ser His Ser Phe Pro His Pro Leu
1          5          10

<210> 184

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    <400> 184
Gln Val Ala Val Tyr Ser His Gly Trp Ala
1          5          10

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    <400> 185
Ser Leu His Leu Leu Ser Asn Asp Met Cys Ala
1          5          10

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    <400> 186
Ser Leu Gln Cys Val Ser Leu His Leu
1          5

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Ser Leu Gln Cys Val Ser Leu His Leu Leu
1          5          10

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    <400> 188
Ser Val Gly Cys Thr Gly Ala Val Pro Leu Ile

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 Val Leu Ser Ile Ala Leu Ser Val
 1 5

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 <400> 190
 Val Leu Val His Pro Gln Trp Val Leu
 1 5

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 Val Leu Val His Pro Gln Trp Val Leu Thr Ala
 1 5 10

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 <220>
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 <400> 192
 Val Leu Val His Pro Gln Trp Val Leu Thr Val
 1 5 10

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<400> 193
Val Leu Val His Pro Gln Trp Val Val
1 5

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<400> 194
Trp Ile Lys Asp Thr Ile Ala Ala
1 5

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<400> 195
Phe Val Glu Glu Gln Met Thr Trp Val
1 5

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<400> 196
Leu Val Tyr His Ile Tyr Ser Lys Val
1 5

<210> 197
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<220>
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<400> 197
Ala Leu Asp Lys Ala Tyr Val Leu Leu
1 5

<210> 198
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 <400> 198
 Ala Leu Asp Lys Tyr Thr Val Leu Leu
 1 5

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 <400> 199
 Phe Leu Asp Ser Asp Tyr Phe Pro Ser Ile
 1 5 10

 <210> 200
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 <400> 200
 Phe Leu Asp Ser Asp Tyr Phe Pro Ser Leu
 1 5 10

 <210> 201
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 <220>
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 <400> 201
 Phe Leu Asp Ser Asp Tyr Phe Pro Ser Val
 1 5 10

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 1 5

 <210> 203

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Ala Leu Asn Lys Met Phe Cys Gln Leu
1          5

    <210> 204
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    <220>
    <223> PAP.299

    <400> 204
Ala Leu Asp Val Tyr Asn Gly Leu Leu
1          5

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    <400> 205
Ile Leu Tyr Ser Ala His Asp Thr Thr Val
1          5          10

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    <400> 206
Ile Val Leu Trp Gln Pro Ile Pro Val
1          5

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    <400> 207
Leu Val Phe Phe Trp Leu Asp Arg Ser Val

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|---|---|----|

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 <400> 208
 Thr Leu Met Ser Ala Met Thr Asn Leu
 1 5

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 <400> 209
 Thr Leu Met Ser Ala Met Thr Asn Val
 1 5

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 <220>
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 <400> 210
 Ile Val Ser Val Ser Ser Phe Leu Phe Val
 1 5 10

<210> 211
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 <220>
 <223> PSA.143.V8

 <400> 211
 Ala Leu Gly Thr Thr Cys Tyr Val
 1 5

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<400> 212
Met Leu Leu Arg Leu Ser Glu Pro Ala Glu Val
1 5 10

<210> 213
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<400> 213
Met Leu Leu Arg Leu Ser Glu Pro Val
1 5

<210> 214
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<220>
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<400> 214
Ala Val Phe Asp Ile Glu Ser Lys Val
1 5

<210> 215
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<220>
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<400> 215
Gly Leu Pro Glu Gly Asp Leu Val Tyr Val
1 5 10

<210> 216
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<220>
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<400> 216
Gly Leu Pro Ser Ile Pro Val His Pro Val
1 5 10

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 Gly Val Pro Glu Gly Asp Leu Val Tyr Val
 1 5 10

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 <400> 218
 Gln Leu Met Phe Leu Glu Arg Ala Phe Val
 1 5 10

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 <400> 219
 Val Leu Ala Gly Gly Phe Phe Leu Val
 1 5

 <210> 220
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 <220>
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 <400> 220
 Ala Leu Ser Leu Ala Ala Val Leu Val
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 <210> 221
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 <220>
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 <400> 221
 Ala Leu Ser Leu Ala Ala Val Leu Val Val
 1 5 10

 <210> 222

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    <400> 222
Ala Met Ala Leu Ile Gly Asp Ser Thr Val
1           5           10

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    <400> 223
Phe Leu Ala Gly His Pro Leu Thr Asn Leu
1           5           10

    <210> 224
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    <400> 224
Phe Leu Ala Arg Leu His Ala Ala Ala
1           5

    <210> 225
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Phe Thr Ser Ala Val Leu Leu Leu Val

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 Gly Leu Leu Leu Leu Gly Leu Trp Gly Thr
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 Gly Leu Met Asn Asn Ala Phe Glu Trp Ile
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 Lys Val Val Ser Leu Val Ile Leu Ala
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 Leu Leu Leu Glu His Gly Gln Phe Asp Leu
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 Leu Leu Leu Gly Leu Trp Gly Thr Ala Ala
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 Leu Met Asn Asn Ala Phe Glu Trp Ile
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Leu Met Asn Asn Ala Phe Glu Trp Ile Val
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Met Thr Ser Cys Val Ser Glu Gln Leu
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Gln Met Asp Tyr Ser Asn Gly Leu Phe Val
1          5          10

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Arg Leu Leu Ser Pro Thr Thr Ile Val
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Arg Val Phe Gly Leu Leu Leu Gly Leu
1          5          10

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Ser Met Asn Ala Thr Leu Val Gln Ala
1           5

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Ser Val Phe Arg Glu Asn Leu Phe Leu
1           5

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Thr Leu Leu Tyr Ala Thr Val Glu Val
1           5

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Val Met Ala Cys Leu Val Pro Ala Ala
1           5

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Val Met Met Ser Cys Ser Ser Glu Ala

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Val Val Met Ala Cys Leu Val Pro Ala Ala
1              5              10

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Trp Ile Ile Lys Asn Ser Trp Thr Ala
1              5

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Trp Leu Ser Asp Cys Gly Glu Ala Leu
1              5

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Tyr Val Asn Gly Val Val Val Ala Thr Val
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Leu Pro Val Ser Pro Arg Leu Gln Ile
1          5

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Met Pro Asn Gln Ala Gln Met Arg Ile Ile
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    <400> 254
Ala Pro Ala Pro Ala Pro Ser Trp
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 Met Pro Tyr Gly Cys Leu Leu Asp His Val Arg
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 1 5

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 Phe Pro Trp Gln Arg Leu Leu Leu
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1           5

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    <400> 264
Phe Pro Asn Asn Asn Gly Thr Ile

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1 5

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 1              5

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Phe Pro Leu Pro Ser Gln Ala Ile

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1           5

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1           5

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1           5

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1           5

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Phe Pro Thr Asn Ala Ser Leu Ser Ile

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Phe Pro Asp Leu Ser Tyr Met Pro Ile
1           5

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1           5

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1           5

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1           5

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1           5

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<220>
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Phe Pro Leu Thr Pro Ser Gly Ala Met
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1          5

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Phe Pro Lys Ala Asn Lys Glu Ile Leu
1          5

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Phe Pro Gln Pro Pro Ile Cys Thr Ile
1          5

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 1 5

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1 5

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